



Insect Monitoring Systems and Pheromones

MATERIAL SAFETY DATA SHEET

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Date: 8 July 2009

Section 1 - MANUFACTURER

Table with 3 columns: MANUFACTURER'S NAME, ADDRESS, EMERGENCY PHONE NO. 24. Includes TRECE, Incorporated, 7569 Highway 28 West, Adair, OK 74330, (918) 785-3061.

Section 2 - PRODUCT IDENTIFICATION

Table with 2 columns: TRADE NAME AND SYNONYMS NO., REGISTRATION. Includes JAPANESE BEETLE INSECT MONITORING LURES, 51934-1.

Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

NAME
Eugenol: colorless to pale yellow liquid, strong clover-like odor, and insoluble in water. BP=255°C, FP=200°F, Specific Gravity=1.066 (water=1).
Geraniol: Colorless to light yellow liquid, floral odor, and insoluble in water. BP=446°F, FP=212°F, Specific Gravity=0.88.
Phenyl Ethyl Propionate: Colorless to pale yellow liquid, fruity odor, and insoluble in water. BP=245°C, FP=212°F, Specific Gravity=1.012.
Japanese beetle pheromone: Colorless to light yellow liquid contained in rubber at 1.0 mg.

Section 4 - HAZARDS IDENTIFICATION

Hazardous Ingredients:
Eugenol: Not considered a hazardous ingredient.
Geraniol: Not considered a hazardous ingredient.
Phenyl Ethyl Propionate: Not considered a hazardous ingredient.
Japanese beetle pheromone: Non-toxic ingredient.
Health Hazard Data:
All compounds are approved by the FDA as GRAS.
Eugenol:
Ingestion - May cause gastroenteritis
Skin Contact - Mild irritation at 8% concentration.
Prolonged Exposure - Orally, allergic reactions cause eczematous rash around mouth. Repeated daily large oral doses to rats caused liver damage. Effects in humans not known.
Geraniol:
Ingestion, inhalation, skin absorption, and eye contact not found. May be irritating to skin and eyes. Repeated contact may cause allergic dermatitis. Some subjects sensitive to balsams of peru sensitive.
Phenyl Ethyl Propionate:
Liquid may be irritating to eyes. Data supporting health hazards in literature not found.

**Section 5 - FIRST AID MEASURES**

In case of contact with eyes: Flush with water. See physician if irritation persists.

Inhalation overexposure: Move to fresh air.

If swallowed: Flush mouth with water. Dilute by drinking water. Consult a physician.

**Section 6 - FIRE AND EXPLOSION HAZARDS**

Flash Point: Over 190 Degrees Fahrenheit

Flammable Limits: N/A

Extinguishing Media: Carbon Dioxide, Dry Chemical, or Foam

Special Fire Fighting Procedures:

Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving chemicals.

Unusual fire and explosion Hazards: None.

**Section 7 - CONTROL MEASURES**

Eye Protection: Goggles should be worn if handling method causes splashing towards eyes.

Ventilation: Normal mechanical ventilation.

Skin: No special requirements. Do not allow prolonged contact.

Steps to be taken in case material is released or spilled: Clean up with solid absorbent, disposal normal for organic oils.

Waste disposal procedures: Dispose of in accordance with Federal EPA label.

Precautions to be taken in handling and storing: Store from heat and light to preserve quality of product.

**Section 8 - PHYSICAL/CHEMICAL CHARACTERISTICS**

Incompatibility (materials to avoid): Strong oxidant, acids, bases.

Hazardous Decomposition products: Smoke, carbon monoxide, carbon dioxide upon combustion.

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